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RELIABILITY PREDICTION

Model : SP-150 Data:2000-01-11

Style	Part Type	Q'ty	λ_g	π_Q	λ_{eg}	%
9.1	Resistor-Film, Insulated (RL)	50	0.003700	10	1.850000	35.380
9.1	Resistor-Wirewound Power (RW)	1	0.008500	10	0.085000	1.626
9.1	Resistor-Film, Variable (RVC)	1	0.040000	10	0.400000	7.650
9.1	Resistor-Thermistor (RTH)	1	0.001400	10	0.014000	0.268
10.1	Capacitor-Metal, Plastic (CH)	5	0.000510	10	0.025500	0.488
10.1	Capacitor-Ceramic(Gen.) (CK)	18	0.001700	10	0.306000	5.852
10.1	Capacitor-Aluminum Dry (CE)	12	0.001300	10	0.156000	2.983
6.1	Diode-Switching	12	0.000940	8	0.090240	1.726
6.1	Diode-Fast Recovery Power Rectifier	5	0.023000	8	0.920000	17.594
6.1	Diode-Power Rectifier / Schottky Power	4	0.002800	8	0.089600	1.714
6.1	Diode-Voltage Ref/Reg. (Avalanche & Zener)	5	0.003300	8	0.132000	2.524
6.1	Diode-Transient Suppressor/Varistor	3	0.002900	8	0.069600	1.331
6.10	Diode-Thyristor/SCR	1	0.002500	8	0.020000	0.382
6.3	Transistor-Power NPN/PNP	1	0.005700	8	0.045600	0.872
6.4	Transistor-MOSFET	2	0.014000	8	0.224000	4.284
6.11	OPTO-isolator	2	0.027000	8	0.432000	8.262
6.11	OPTO-Emitter	1	0.000470	8	0.003760	0.072
5.1	Linear Microcircuits	3	0.009500	10	0.285000	5.450
11.1	Transformer Switching	1	0.000610	3	0.001830	0.035
11.2	Coil Fixed inductor or choke	3	0.000032	3	0.000288	0.006
17.1	Single Connections-Reflow solder	353	0.000069	1	0.024357	0.466
17.1	Fuses Clip-Clip Termination	2	0.000120	1	0.000240	0.005
22.1	Fuses	1	0.010000	1	0.010000	0.191
16.1	Plated Through Hole Circuit Boards	1	0.022000	2	0.044000	0.841
Total Failure rate:					5.229015	100%

- **Data Base: MIL-HDBK-217F ,Notice 2, Parts Count**
- **Env.: GB**

MTBF: 191240.61 **hrs**

Approved by: David Wang Compiled by: Kim Tseng .